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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,376	11/17/2003	Niall D. McDonnell	10559-910001 / P18019	4375
20985 EIGH & DICH	7590 08/20/2007	EXAMINER		
FISH & RICHARDSON, PC P.O. BOX 1022			PHAM, BRENDA H	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			2616	
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			08/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/716,376	MCDONNELL, NIALL D.			
		Examiner	Art Unit			
	•	Brenda Pham	2616			
	The MAILING DATE of this communication ap					
Period for	or Reply					
WHIC - Exte afte - If NC - Failt Any	HORTENED STATUTORY PERIOD FOR REPICHEVER IS LONGER, FROM THE MAILING I ensions of time may be available under the provisions of 37 CFR 1 r SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a red d will apply and will expire SIX (6) MONT afe, cause the application to become ABA	CATION. Sply be timely filed IHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status	•					
1)⊠	Responsive to communication(s) filed on 11.	<u>June 2007</u> .				
,	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.			
Disposit	tion of Claims					
4)🖾	Claim(s) 1-30 is/are pending in the application	n.				
	4a) Of the above claim(s) <u>28-30</u> is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1-3 and 6-27</u> is/are rejected.					
7)						
8)	Claim(s) are subject to restriction and/	or election requirement.				
Applicat	tion Papers					
9)[The specification is objected to by the Examir	ner.				
10)🛛	The drawing(s) filed on 17 November 2003 is	/are: a)⊠ accepted or b)□	objected to by the Examiner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the corre					
11)[The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for foreig	an priority under 35 U.S.C. §	119(a)-(d) or (f).			
)					
	1. Certified copies of the priority documer	nts have been received.				
	2. Certified copies of the priority documen	nts have been received in Ap	oplication No			
	3. Copies of the certified copies of the pri	iority documents have been	received in this National Stage			
	application from the International Bure	au (PCT Rule 17.2(a)).				
*	See the attached detailed Office action for a lis	st of the certified copies not i	received.			
Attachme	nt(s)					
	ice of References Cited (PTO-892)		ummary (PTO-413))/Mail Date			
	ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08)		formal Patent Application			
· —	er No(s)/Mail Date	6) 🔲 Other:	 ·			

Application/Control Number: 10/716,376

Art Unit: 2616

DETAILED ACTION

1. Claims 1-30 are pending in the application. Claims 28-30 are withdrawn from consideration.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 11-16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding claims 11-16, "A computer product or article of manufacture" is non-statutory subject matter.

Regarding claims 17-22, "A computer program product, tangibly embodied in an information carrier, for executing instructions on a processor, the computer program product being operable to cause a machine to:" is non-statutory subject matter.

Data structures not claimed as embodied in computer-readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention which permit the data structure's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware

components which permit the data structure's functionality to be realized, and is thus statutory.

Similarly, computer program claimed as computer listings per se, i.e., the descriptions or expressions of the programs, are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer program do not defined any structural and functional interrelationships between the computer program and other claimed elements of a computer which permit the computer program's functionality to be realized. In contrast, a claimed computer-readable medium enconded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F 3d at 1583-84, 32 USPQ2d at 1035.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2616

5. Claims 1, 3, 11, 17, 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Simpkins et al (US 6,931,002 B1).

Regarding claims 1, 3, 11, 13, 17, 19 and 23 and 24 **Simpkins et al** disclose system and method comprising (referring to figure 6):

receiving frames partitioned into multiple timeslots (28, 29);

reading a timeslot lookup table including an entry that specifies an assignment corresponding to a timeslot (TSI control function 43 for reading address of the shared memory for a TDM packet and the packet switch control function 44 for reading the address of the input time slot for a packet logical port); and

storing data associated with a particular timeslot in a memory location based on the assignment, with data from a particular channel included in timeslots having a data assignment stored in contiguous memory locations.

Simpkins et al teach, "if the input time slot belongs to a TDM logical port, the address of the shared memory 40 is selected from the TSI control function 43. If the input time slot belongs to a packet logical port, the address of the shared memory 40 is selected from the packet switch control function 44." (col. 7, line 10-45).

Regarding claims 2, 6, 12, 14 and 18, 20, 25, **Simpkins et al** further teach wherein the assignments include a voice timeslot, an unassigned timeslot, and a data timeslot (see figure 7, col. 6-7, line 60-67, 1-10, respectively).

Art Unit: 2616

Regarding claims 7, 15, 16, 21, 22, 26, 27, **Simpkins et al** further teach wherein storing the data comprises:

storing the data included associated with voice timeslots in a first memory (31 of figure 5);

storing the data associated with data timeslots in a second memory (32 of figure 5); and

discarding the data associated with unassigned timeslots ("A null DEU caries no data, but serves as a placeholder in the port module interface frame. If the time slot is found to contain a packet DEU, the DEU will be enqueued...If the DUE is found to contain a null DUE, the DUE will be discarded" (see col. 8, line 37-45).

Note: Examiner does not give patentable weight to "configured to" clauses because such language that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation (see claims 23-27).

Allowable Subject Matter

- 6. Claims 4-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: the prior art made of record fails to teach in combination wherein calculating the number of timeslots includes locating a start-point and an end-point of consecutive channels in a frame having the same assignment.

Application/Control Number: 10/716,376

Art Unit: 2616

Conclusion

Page 6

Any inquiry concerning this communication or earlier communications from the 8. examiner should be directed to Brenda Pham whose telephone number is (571) 272-3135. The examiner can normally be reached on Monday-Friday from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild, can be reached on (571) 272-2092.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

August 13, 2007 Brenda Pham

BRENDA PHAM

PRIMARY EXAMINER

Brend Phan